

0570

0420

0520/0280

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/020,338

DATE: 01/15/2002
TIME: 17:57:36

Input Set : D:\Pa_00392.rpt
Output Set: N:\CRF3\01152002\J020338.raw

2

P.S

1 <110> APPLICANT: Andersen, Scott E.
 2 Hammond-Kosack, Kim
 3 Urban, Martin
 5 <120> TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
 6 Plants
 8 <130> FILE REFERENCE: 38-21(52272)B
 10 <140> CURRENT APPLICATION NUMBER: US/10/020,338
 10 <141> CURRENT FILING DATE: 2001-12-12
 10 <150> PRIOR APPLICATION NUMBER: US 60/255,575
 12 <151> PRIOR FILING DATE: 2000-12-14
 14 <160> NUMBER OF SEQ ID NOS: 25642
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 569
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Triticum aestivum
 21 <220> FEATURE:
 23 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G9
 25 <400> SEQUENCE: 1
 27 cacaagctaa tcaagctctc agtccttcc cactccagg ttcaggcaag caaaccgaag 60
 29 cactagatcc tcgatggctc gctggcact ggtggccgt ttcggccgtc tcggcact 120
 31 ggccgtggcg gagatggcgt cggggcggt gacctggcgc gacgtgacgt cggccgtcgc 180
 33 gccgtgcatt tcctacgcga gggggcaagc gtcggcaccc tcggggcggt gctgcagcgg 240
 35 ggtgaggacc ctgaacgcca aggcgtccac cccggccgac cggaaaggcgg cgtgcaactg 300
 37 cctcaagaac ctggcggggt cgggcatcaag catggtaac gccgccaaca tccccggcaa 360
 39 atgccccgtc tccgtctctt tccccatcaa cacaaaacc aactgcaaca accttcacta 420
 41 agttatctac cagcatcatc atcacaccag gctagctgc ccactcggtg tctactgttg 480
 43 ctgctctctg cgtgtttcg ttgtgtttt ctccatgtgt tcgacctcca tctgttgcgg 540
 45 ttaatacaga tcgagcagat tactgateg 569
 48 <210> SEQ ID NO: 2
 49 <211> LENGTH: 531
 50 <212> TYPE: DNA
 51 <213> ORGANISM: Triticum aestivum
 53 <220> FEATURE:
 55 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-H10
 57 <400> SEQUENCE: 2
 59 cggacgcctg ggccggacgcga tgggctgcac ttggccctg aaaaaaagaa aggactgtgt 60
 61 caaccacgac cggccacttc atgagcggtt ggagctcaag tctgaagagt atgacctttg 120
 63 agaccctttt gccccaggat gaggctggcc tttatcgac ctttgagtct atgaaaggga 180
 65 cggcttgtgt tctaccagct gcccggatgc caggacctga aggagccaa ccgacctttt 240
 67 acttatgata cgccttctac acagagttag gtagacgcag acgacaacga cgacgactca 300
 69 agacgaccgc tggatcgact gcaaccgt ataaggcggt aggccagccc cttgcctgcc 360
 71 tctggctcaa taaagagggt ttccctgttatgttcccg gagataggac tggggccga 420
 73 tgaaggcacct tgcgtttac ccgtcgccgg acaacgacac tgcacactc actcaagctc 480
 75 atccctagccg ttgtgttctt acccgccgct gcacgagaca tccagccgtg t 531
 78 <210> SEQ ID NO: 3
 79 <211> LENGTH: 562
 80 <212> TYPE: DNA

ENTERED

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81 <213> ORGANISM: Triticum aestivum
 83 <220> FEATURE:
 84 <221> NAME/KEY: unsure
 85 <222> LOCATION: (1)..(562)
 86 <223> OTHER INFORMATION: unsure at all n locations
 87 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-H11
 89 <400> SEQUENCE: 3

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 93 tataaattgc tccatggagc tcgtactatt aattgatggc tcacgggttag caacagcgg 120
 95 atattcttag ttgaaatcatg tttgatgttc ctcagaatg aattccactc gttattcaat 180
 97 accactataa gaaaatagtg aaatgctggc cgtctgcaaa agtactggtc cgtctcgccg 240
 99 tctcacccca aaaacagagg aggggagca gggagctc ctcacacatt gtgcgttcca 300
 101 aggagccccg ccaccatgc tggttagaaga ggagcgcgg 360
 103 aaaccaaggc tgcaatgttt gaatattata ctcagtcgt tgctcgacta cttacagtcc 420
 105 tattacttga gacttaatac tcggtcagct gccgtgtaca ttgttctgac ataaatgcca 480
 107 ccatgtctat gcgcaagtca gcaagaactt accatctaaa aagatgtcta attagtgtgg 540
 109 tacatgcttc agtactgca gt 562

112 <210> SEQ ID NO: 4
 113 <211> LENGTH: 450
 114 <212> TYPE: DNA
 115 <213> ORGANISM: Triticum aestivum
 117 <220> FEATURE:
 118 <221> NAME/KEY: unsure
 119 <222> LOCATION: (1)..(450)
 120 <223> OTHER INFORMATION: unsure at all n locations
 121 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-H3
 123 <400> SEQUENCE: 4

WOK 125 tccgtttttt tcaagttgca ccaatactga aacagnaatt aactggttct gaatactcat 60
 127 tgacacaaga cactgacatc taaagcggta tgattctggt acccaaagg tgatgtatgaa 120
 129 ccgataataa tagaaaaata tgacacaagt gcgcagaaa ttccacagct taaacattga 180
 131 aagccctgc tggccctcct tcctcttgc ttctcaatt tcctggccct tgagcggaca 240
 133 tatggcttgg tggctgttg tggcactcct ggagcttgc caaagtgcct aacagcttcc 300
 135 ctggcgttct tggggccctt caggagaagc gtgttctgac caagcggagc acgaaggcgc 360
 137 agctggtaaa aggttaaggca ctcaccaccc gtattgacaa tcctggccct cggcgtctaa 420
 139 tagaacctga ggcggacac cttcatttgc 450

142 <210> SEQ ID NO: 5
 143 <211> LENGTH: 223
 144 <212> TYPE: DNA
 145 <213> ORGANISM: Triticum aestivum
 147 <220> FEATURE:
 149 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-H5
 151 <400> SEQUENCE: 5

153 ctcttcttctt cctctggccc aaaaccctac cgtcgcctca cagctgcggc ccgacgcagc 60
 155 gagcttgc tccaccggccg caaccatggc gaccaggc agcaagaaga agaagttgt 120
 157 gagcgatggc gttttgtacg ccgagctgaa cgagatgtg acccgggagc ttggccgagga 180
 159 cggctgctcc ggcgtgtgg tacacgtgac ggcgtgc acg 223

162 <210> SEQ ID NO: 6
 163 <211> LENGTH: 156
 164 <212> TYPE: DNA

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165 <213> ORGANISM: Triticum aestivum
 167 <220> FEATURE:
 169 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-H6
 171 <400> SEQUENCE: 6
 173 cccgtcgagc aaaagaaggc tcttccaact ccataaaagtg gaaaagtgggt cggccataaaat 60
 175 cccaaaggcta ccgtgccagg atcgaacagc gttaaagcctt cgagcctgga taactagcac 120
 177 ggcatttcgt tcctcagcta acaacgagtt acacgt 156
 180 <210> SEQ ID NO: 7
 181 <211> LENGTH: 571
 182 <212> TYPE: DNA
 183 <213> ORGANISM: Triticum aestivum
 185 <220> FEATURE:
 187 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-H7
 189 <400> SEQUENCE: 7
 191 gggacgacga ggccgacacctg ccaggtctac acgcgcggcc gcctccagga ccctccgccc 60
 193 ctcgcccggcc cctccaggat cctccggccc tcgcgcgc cgtcctccac tgcagcagga 120
 195 agcagattga agctatggcc ttggtaata agcttggtaa tctgctcaag aaggccacta 180
 197 gctcaatcc gactcttat caggcaataa gatgcatttc atcatcaag ctcttcgttg 240
 199 gagggctttc cttaaacaca gacgaggcca gtctgagaga tgcctttcc cattatggag 300
 201 aaattattga tgctaagatt atcgttagatc ggcacactgg aaggtctaga ggttttggct 360
 203 ttataactta tgcagcagaa gaacaggcctt catctgccc catggcctt gacggaaagg 420
 205 atctacatgg acgcaaccta cgggttagtg ctgcactga gaggaccgtt ggcttccgtt 480
 207 atgggtctgg ttatggaggt ggtgtggcg gcttggagg aggaggatat ggcgggttg 540
 209 gctatggagg aggtgttat ggtggcaaca g 571
 212 <210> SEQ ID NO: 8
 213 <211> LENGTH: 593
 214 <212> TYPE: DNA
 215 <213> ORGANISM: Triticum aestivum
 217 <220> FEATURE:
 219 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-H9
 221 <400> SEQUENCE: 8
 223 cccgggtcgac ccagcgtccg gccatttta ggcgtctca gcaatagacg ctcgacagca 60
 225 taccgcggcc ggaaccacac tcgatcgac ctcctccaa ttacaccaca aatccatcca 120
 227 tcctcttcct ctccatctt taaagctca tcccatctcc cctcaccgccc gcggcgagcc 180
 229 agcgacgtct cgcctctcc caccggccc ggcgtgcgcg ccatagacac aagagccgac 240
 231 agcttagatcg cgaaatcagg atatgggtcg cggcaagggtg cagctgaagc ggatagagaa 300
 233 caagataaaat cggcaggta ctttctccaa ggcgcgcac gggctctga agaaggcgca 360
 235 cgagatctcc gtcctctgtg acgcccggagg cgcgttcatc gtcttctccc ccaaaggca 420
 237 gctctatgag tacggcaccg actccagcat ggacaaaatt cttgaacgtt atgagcgcta 480
 239 ctcttatgt gaaaaggctc ttatccagc tgaatctgaa agtggggaa attggtgcca 540
 241 cgaatacagg aaacttaagg cgaagattga gaccataaa aatgtcaca agc 593
 244 <210> SEQ ID NO: 9
 245 <211> LENGTH: 532
 246 <212> TYPE: DNA
 247 <213> ORGANISM: Triticum aestivum
 249 <220> FEATURE:
 250 <221> NAME/KEY: unsure
 251 <222> LOCATION: (1)..(532)
 252 <223> OTHER INFORMATION: unsure at all n locations

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253 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G1

255 <400> SEQUENCE: 9

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259 aaagaaaatcc aggtagatgc attcggtgc cggatgaatg ttgatgaaag ctgggtgcac 120
261 tgctcatcga cacctagcga tgaagaaaatt ccagtggatg cattctgcag ccagatgaat 180
263 gagcttcctc ctatcagtga ctatgtttgc acaactgaca aactctcaact ggatgatatac 240
265 tcaaggctgg cagataatgtt tcctgtcaat gactttgtcg acacaacagg tgagccgcct 300
267 ggtgacgact acatcgggct ggcagacatc agtcatctac cgatgcaat gttcgagttg 360
269 gatacagaac ttaattggga aggtttcgcac tttgcttcga tggAACgtga actagagaga 420
271 ctttaggcct cgacaacatt gaggtttca tcttcggac agatgtttagg gtgagtttgt 480
273 gatcaggaga tgtgttcatc tccaattttg tttgaaatttgc ttcaatttcca cc 532

276 <210> SEQ ID NO: 10

277 <211> LENGTH: 511

278 <212> TYPE: DNA

279 <213> ORGANISM: Triticum aestivum

281 <220> FEATURE:

283 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G10

285 <400> SEQUENCE: 10

287 ggaagcaggc aatttggctg cggagcagaa ttacaaacac agtgctctgt ctgaaggaag 60
289 gaaaaaaacag tttgaaatca cagcatctcc cgcatctgaa ttatgtacag aatttgaccc 120
291 ccaattccctc ctccctctcc cttcagcaac tactagtagt tggtgtatgt acaacgaaga 180
293 ttagtgaagaa gaaaaagcaa acagccgcgc ccatacggcc aaccaatcgg aaccaattgg 240
295 aaggcctaacc ctactcctaa tccacgtcct cgatcctgat gttgaccggc tcctccctct 300
297 gctccctccctc ctgctgcggc ctctccgcctc ctgcagcgt cacgatgctg accagcacccg 360
299 cgccccctggg cccgcgcctc tcgcccgtcgc cggtcggctg ctccctcgcc gccggctccg 420
301 ccttggggag ctgcgtggcg cagacggggc agctcccgatg cacgcccagc caccgttcca 480
303 ggcactcccc gtggaaagcgg tgccgcacg g 511

306 <210> SEQ ID NO: 11

307 <211> LENGTH: 554

308 <212> TYPE: DNA

309 <213> ORGANISM: Triticum aestivum

311 <220> FEATURE:

312 <221> NAME/KEY: unsure

313 <222> LOCATION: (1)..(554)

314 <223> OTHER INFORMATION: unsure at all n locations

315 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G11

317 <400> SEQUENCE: 11

319 ctccctccaca ccaagtgagt gagagctttg cgctngaagt tcatcagcaa ctatgaaggg 60
321 caccaagctc gggcgatcc tgatcctcca ggccgtctg gtcatggag tcctctcgca 120
323 cgtcaacgccc gacttcttcc ccaagtgtcg caacaactgc aggtccttct cgggggtcga 180
325 cgtctgcac gacgcccacc ccaagtgtcc caaggcgtgc tcggcgtgcc gctgggtgtc 240
327 gacgagcccc gaatgtggcg ctgcgcggat atgaaatcca ccgtcgacgg cacctgcgg 300
329 ggaccctgcga agaagtactg atcgggttcat gccgcataat gatatgttcc gcctaaaatt 360
331 aaataaaaaggc tcggacgaga tgagcagcgt catcgtgcct atgcgtgtgt gtgtgaccaa 420
333 caaatatgtt taccagtatg tcgtgtctc gtcgtgtgt tttctctctc gagaaaaaaagg 480
335 tggtgttgct tgggtttagt ctatccggaa tatcctccgt gaataaacac ctgttagtcat 540
337 tggcggtggc tgcc 554

340 <210> SEQ ID NO: 12

341 <211> LENGTH: 556

WOKS

WOKS

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342 <212> TYPE: DNA
 343 <213> ORGANISM: Triticum aestivum
 345 <220> FEATURE:
 347 <223> OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G12
 349 <400> SEQUENCE: 12

351	gcgacacctgg	gttcaaaaacc	ttcctcctca	ccggccgccc	gggcccacca	ggccgtcacc	60
353	gtcgacacct	cagagacagg	gttccacga	ctggacaag	ctcatactca	ggcagcagc	120
355	tgaccgggag	aaaacggcga	ccgcctacaa	gtcgagaag	aggaaggaga	tggaggcgg	180
357	gggttacaag	atcctggca	actccggcga	ccagtggac	gacctgtgg	gctactccat	240
359	gagcgcggc	tccttcaagc	tccccaaccc	gatgtactac	gtcccgtac	acaacagagc	300
361	agacatgatt	gttgggcata	gtgtgagaaa	tgcagtgtt	atttatctgt	tgcgttcgtc	360
363	atgcccggcc	gattgactga	accctgtact	gactgactga	gtgtgaaaaa	caagactgag	420
365	aatggaattt	agaaggaaga	atttataccg	tgcaaattat	tcgctgactt	catgttagcat	480
367	acttgcattt	gacttggag	tttgattgtg	taatggatga	gatgctaaat	gctgttgctc	540
369	tgaaatgaaa	tgttga					556
372	<210>	SEQ ID NO:	13				
373	<211>	LENGTH:	216				
374	<212>	TYPE: DNA					
375	<213>	ORGANISM: Triticum aestivum					
377	<220>	FEATURE:					
379	<223>	OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G2					
381	<400>	SEQUENCE: 13					
383	atccggggaa	cctcaccaac	gataccta	ggactgttag	gaagggttca	acgtggtagg	60
385	agtacttccc	aggattggca	agggttaggag	tgttaagag	ggcagttgt	gcccaagccg	120
387	agagatgagg	aatagatggg	ctgatctgt	agaacaaggt	gatcgacat	catacagca	180
389	tggataagtt	aacgtttgtat	cacgacgtg	gtgatt			216
392	<210>	SEQ ID NO:	14				
393	<211>	LENGTH:	412				
394	<212>	TYPE: DNA					
395	<213>	ORGANISM: Triticum aestivum					
397	<220>	FEATURE:					
399	<223>	OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G3					
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403	gcagaacaca	cagactcct	accaaaacca	caagcctct	ccaacccaa	aacctcgaa	60
405	tgtctgtct	cgaggaaac	tgcggatgc	gcacccctg	caagtggc	aacggctgc	120
407	gtggctgcaa	catgtacccc	gaggttgg	ccgcggcgc	caccctcctc	ttctccgcca	180
409	ctgccactca	caaggggagc	tccggcggca	tggagatggc	ggccgagaac	ggccgctgc	240
411	gtgcaccca	gtgcaagtgc	ggcaccagct	gcggctgtc	ctgctgcagc	tgctaaatca	300
413	ttgatcatgc	atgcggcggg	tgcatacatat	gtatgatcta	cgtatccatg	tactaccatg	360
415	taatgccacc	taatcaaggg	tcttgaatg	tatagagagt	atacacacat	ga	412
418	<210>	SEQ ID NO:	15				
419	<211>	LENGTH:	432				
420	<212>	TYPE: DNA					
421	<213>	ORGANISM: Triticum aestivum					
423	<220>	FEATURE:					
425	<223>	OTHER INFORMATION: Clone ID: LIB3833-030-Q1-K6-G5					
427	<400>	SEQUENCE: 15					
429	tccacacctca	accacgcccgg	tggccacaca	cagacacact	ttcgccggag	ctcaggtgag	60
431	gtgttccaaat	ggcggcctcg	ccgacgggggg	tgcgtgccc	ggtctacccg	tggccgagcg	120

→ Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:707 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:775 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:853 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:915 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:1055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:1235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:1269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:1459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:1483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:1545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:1599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:1667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:1671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:1717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:1719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:1783 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:1857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:1917 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67
L:1949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:1983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:2045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:2165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:2199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76
L:2233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:2267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78

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L:2301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79
L:2401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:2491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85
L:2525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86